

RESULT 1
 AAQ99824/c
 ID AAQ99824 standard; cDNA; 10 BP.
 XX
 AC AAQ99824;
 XX
 DT 06-MAR-1996 (first entry)
 XX
 DE Loblolly pine fusiform rust disease resistance marker OPC6 primer.
 XX
 KW Loblolly pine; Pinus taeda; fusiform rust disease; resistance marker;
 KW Cronartium quercum f.sp. fusiforme; Cqf; RAPD genetic marker;
 KW random amplified polymorphic DNA analysis; woody perennial plant;
 KW family selection; pedigree; mapping; primer; ss.
 XX
 OS Synthetic.
 XX
 PN WO9519697-A1.
 XX
 PD 27-JUL-1995.
 XX
 PF 19-JAN-1995; 95WO-US00677.
 XX
 PR 21-JAN-1994; 94US-0184567.
 XX
 PA (UNNC-) UNIV NORTH CAROLINA STATE.
 XX
 PI Grattapaglia D, O'Malley DM, Sederoff RR;
 XX
 DR WPI; 1995-269212/35.
 XX
 PT Determn. of heritable oligogenic traits in woody plants by genomic

100% Seq Identity

to seq 16

Appleton

09/5304663

Box A

Tue Jul 30 09:10:31 2002

us-09-53

PT mapping of multiple markers in a two generation plant family - used
 PT to select plants with desired characteristics for breeding.
 XX
 PS Example 5; Page 31; 103pp; English.
 XX
 CC RAPD analysis was used to study resistance to particular strains of
 CC Cronartium quercum f.sp. fusiforme (Cqf), the causative agent of
 CC fusiform rust disease, in loblolly pine (Pinus taeda). A putative
 CC heterozygous mother tree (clone 10-5) and two open pollinated
 CC daughters (half-sib clones 152-231 and 152-257) were crossed to a
 CC highly susceptible pollen parent. Progeny were challenged with
 CC inoculum from various aeciospore lines. It was found that the
 CC marker amplified by the 10-mer primer in AAQ99824 was predictive of
 CC resistance to inoculation with single Aeciospore line 2-36 in
 CC clone 152-231 progeny. These and other results showed that resistance
 CC to fusiform rust disease in loblolly pine is under oligogenic
 CC control which can be mapped using genetic markers, using only a
 XX
 SQ Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 other;

Query Match 100.0%; Score 6; DB 16; Length 10;
 Best Local Similarity 100.0%; Pred. No. 1.1e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 ccgttc 6
 |||||
 Db 6 CCGTTC 1



DEMANDE INTERNATIONALE PUBLIEE EN VERTU DU TRAITE DE COOPERATION EN MATIERE DE BREVETS (PCT)

(51) Classification internationale des brevets⁶: C12N 15/53, 15/82, 5/10, A01H 5/00		A3	(11) Numéro de publication internationale: WO 96/38567 (43) Date de publication internationale: 5 décembre 1996 (05.12.96)									
<p>(21) Numéro de la demande internationale: PCT/FR96/00831</p> <p>(22) Date de dépôt international: 3 juin 1996 (03.06.96)</p> <p>(30) Données relatives à la priorité:</p> <table> <tr> <td>95/06800</td> <td>2 juin 1995 (02.06.95)</td> <td>FR</td> </tr> <tr> <td>95/13570</td> <td>10 novembre 1995 (10.11.95)</td> <td>FR</td> </tr> <tr> <td>96/05944</td> <td>17 mai 1996 (17.05.96)</td> <td>FR</td> </tr> </table> <p>(71) Déposant (pour tous les Etats désignés sauf US): RHONE-POULENC AGROCHIMIE [FR/FR]; 14-20, rue Pierre-Baizet, F-69009 Lyon (FR).</p> <p>(72) Inventeurs; et</p> <p>(75) Inventeurs/Déposants (US seulement): SAILLAND, Alain [FR/FR]; 38, rue Ernest-Fabregue, F-69009 Lyon (FR). ROLLAND, Anne [FR/FR]; 41, rue Louis-Bouquet, F-69009 Lyon (FR). MATRINGE, Michel [FR/FR]; 5, chemin de Montpellas, F-69009 Lyon (FR). PALLETT, Ken [GB/GB]; Ongar, Essex CM5 0HW (GB).</p> <p>(74) Mandataire: CHRETIEN, François; Rhône-Poulenc Agrochimie, 14-20, rue Pierre-Baizet, F-69009 Lyon (FR).</p>		95/06800	2 juin 1995 (02.06.95)	FR	95/13570	10 novembre 1995 (10.11.95)	FR	96/05944	17 mai 1996 (17.05.96)	FR	<p>(81) Etats désignés: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, brevet ARIPO (KE, LS, MW, SD, SZ, UG), brevet eurasien (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), brevet européen (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), brevet OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Publiée <i>Avec rapport de recherche internationale.</i> <i>Avant l'expiration du délai prévu pour la modification des revendications, sera republiée si de telles modifications sont reçues.</i></p> <p>(88) Date de publication du rapport de recherche internationale: 22 mai 1997 (22.05.97)</p>	
95/06800	2 juin 1995 (02.06.95)	FR										
95/13570	10 novembre 1995 (10.11.95)	FR										
96/05944	17 mai 1996 (17.05.96)	FR										
<p>(54) Title: DNA SEQUENCE OF A GENE OF HYDROXY-PHENYL PYRUVATE DIOXYGENASE AND PRODUCTION OF PLANTS CONTAINING A GENE OF HYDROXY-PHENYL PYRUVATE DIOXYGENASE AND WHICH ARE TOLERANT TO CERTAIN HERBICIDES</p> <p>(54) Titre: SEQUENCE ADN D'UN GENE DE L'HYDROXY-PHENYL PYRUVATE DIOXYGENASE ET OBTENTION DE PLANTES CONTENANT UN GENE DE L'HYDROXY-PHENYL PYRUVATE DIOXYGENASE, TOLERANTES A CERTAINS HERBICIDES</p> <p>(57) Abstract</p> <p>DNA sequence of a gene of hydroxy-phenyl pyruvate dioxygenase and production of plants containing a gene of hydroxy-phenyl pyruvate dioxygenase and which are resistant to herbicides. DNA sequence of a gene of hydroxy-phenyl pyruvate dioxygenase; isolation from a bacteria or a plant; utilization for obtaining plants tolerant to herbicides.</p> <p>(57) Abrégé</p> <p>Séquence ADN d'un gène de l'hydroxy-phénol pyruvate dioxygénase et obtention de plantes contenant un gène de l'hydroxy-phénol pyruvate dioxygénase, résistantes aux herbicides. Séquence ADN d'un gène de l'hydroxy-phénol pyruvate dioxygénase; isolement à partir d'une bactérie ou d'une plante; utilisation pour l'obtention de plantes tolérantes aux herbicides.</p>												



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(21) International Application Number: PCT/GB92/01640 (22) International Filing Date: 9 September 1992 (09.09.92)		(74) Agent: HUSKISSON, Frank, Mackie; Imperial Chemical Industries plc, ICI Group Patent Department, P.O. Box 6, Bessemer Road, Welwyn Garden City, Herts AL7 1HD (GB).	
(30) Priority data: 9119279.9 10 September 1991 (10.09.91) GB		(81) Designated States: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG).	
(71) Applicant (<i>for all designated States except US</i>): IMPERIAL CHEMICAL INDUSTRIES PLC [GB/GB]; Imperial Chemical House, Millbank, London SW1P 3JF (GB).		Published <i>With international search report.</i>	
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(54) Title: MODIFICATION OF LIGNIN SYNTHESIS IN PLANTS			
(57) Abstract			
<p>The biosynthesis of lignin in plants is regulated by insertion into the plant genome by altering the plant's ability to synthesize the enzyme O-methyl-transferase, an enzyme involved in the lignin biosynthetic pathway. Production of O-methyl-transferase may be enhanced by insertion into the plant genome by transformation of one or more additional copies of the O-methyl-transferase gene or production may be inhibited by insertion of a gene encoding anti-sense mRNA directed against the mRNA encoded by the endogenous O-methyl-transferase gene.</p>			